

Title (en)

Device for electroplating of workpieces and trays for said apparatus

Title (de)

Vorrichtung zum elektrolytischen Beschichten von Behandlungsgut und Horden für diese Vorrichtung

Title (fr)

Installation pour l'électroplacage de pièces et claies pour cette installation

Publication

**EP 1724377 A1 20061122 (DE)**

Application

**EP 06014995 A 19990728**

Priority

- EP 99941474 A 19990728
- DE 19834245 A 19980729

Abstract (en)

Racks with the workpieces to be treated pass in a separate circuit through a container (2) for galvanic immersion coating. Rack change takes place after this container. The workpieces on the new rack pass in a further separate circuit through a container (4) for electrophoretic coating. The installation incorporates two rack conveyors (with one of them partially functioning as an electrode) forming closed circuits and a rack changer unit (12) integrated into one of such circuits.

IPC 8 full level

**C25D 17/00** (2006.01); **B65G 49/04** (2006.01); **C25D 17/06** (2006.01); **C23C 22/73** (2006.01); **C25D 13/00** (2006.01); **C25D 17/08** (2006.01); **C25D 17/28** (2006.01); **C25D 19/00** (2006.01); **C25D 21/00** (2006.01); **C25D 13/22** (2006.01)

CPC (source: EP KR US)

**B65G 49/0427** (2013.01 - EP US); **B65G 49/0463** (2013.01 - EP US); **C25D 11/005** (2013.01 - EP US); **C25D 13/22** (2013.01 - EP US); **C25D 17/06** (2013.01 - KR)

Citation (search report)

- [PX] WO 9844170 A2 19981008 - NUETRO MASCHINEN & ANLAGEN [DE], et al
- [A] EP 0654548 A1 19950524 - NUETRO MASCHINEN & ANLAGEN [DE]
- [A] US 2506794 A 19500509 - KENNEDY JAMES M, et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 466 (C - 0989) 28 September 1992 (1992-09-28)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)

AL LT LV MK RO SI

DOCDB simple family (publication)

**US 6565722 B1 20030520**; AU 5507699 A 20000221; BR 9913344 A 20010515; CA 2338971 A1 20000210; CZ 2001335 A3 20010815; DE 19834245 A1 20000203; DE 19834245 B4 20070503; EP 1100984 A1 20010523; EP 1724377 A1 20061122; HU 225207 B1 20060828; HU P0103402 A2 20011228; HU P0103402 A3 20020228; JP 2002521574 A 20020716; KR 20010071055 A 20010728; MX PA01002189 A 20040514; PL 189768 B1 20050930; PL 345779 A1 20020102; TR 200100920 T2 20010723; WO 0006810 A1 20000210

DOCDB simple family (application)

**US 74462301 A 20010321**; AU 5507699 A 19990728; BR 9913344 A 19990728; CA 2338971 A 19990728; CZ 2001335 A 19990728; DE 19834245 A 19980729; EP 06014995 A 19990728; EP 9905410 W 19990728; EP 99941474 A 19990728; HU P0103402 A 19990728; JP 2000562588 A 19990728; KR 20017001223 A 20010129; MX PA01002189 A 19990728; PL 34577999 A 19990728; TR 200100920 T 19990728